UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

34408 7590 06/02/2008

THE ECLIPSE GROUP 10605 BALBOA BLVD., SUITE 300 GRANADA HILLS, CA 91344 EXAMINER
PHU, PHUONG M
ART UNIT PAPER NUMBER

2611 DATE MAILED: 06/02/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/938,387	08/23/2001	Charles P. Norman	ST00015USU2	2456
TITLE OF INVENTION: A	NALOG COMPRESSION O	OF GPS C/A SIGNAL TO AUDIO BANDWIDTH	(108-US-U2)	

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	YES	\$720	\$0	\$0	\$720	09/02/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NOT THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance of herwise in Block 1, by	orders and notification of r (a) specifying a new corres	naintenance fees w pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspondence address a trate "FEE ADDRESS" fo
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Note Feet paps baye	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
34408 THE ECLIPSE 10605 BALBOA GRANADA HII	GROUP A BLVD., SUITE 30	2/2008	I be	Cert	ificate	of Mailing or Trans	
							(Depositor's name)
			<u> </u>				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	TTORNEY DOCKET NO. CONFIRMATION NO.	
09/938,387 TITLE OF INVENTION	08/23/2001 : ANALOG COMPRES	SION OF GPS C/A SIG	Charles P. Norman NAL TO AUDIO BANDW	IDTH		5T00015USU2 (108-US-U2)	2456
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$0	\$0		\$720	09/02/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS]			
PHU, PH	PHU, PHUONG M 2611		375-324000	•			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DAT/ less an assignee is ident h in 37 CFR 3.11. Comp	inge of Correspondence I Indication form and. Use of a Customer A TO BE PRINTED ON	2. For printing on the p (1) the names of up to or agents OR, alternativ (2) the name of a singl registered attorney or 2 registered patent atto listed, no name will be THE PATENT (print or typ e data will appear on the p Dy a substitute for filing an (B) RESIDENCE: (CITY)	3 registered patent vely, e firm (having as a agent) and the name meys or agents. If r printed.	memb s of up to nam	er a 2	ocument has been filed for
	are submitted:	4	4b. Payment of Fee(s): (Plea A check is enclosed.	ise first reapply an	y prev	iously paid issue fee	
Advance Order -	# of Copies		The Director is hereby overpayment, to Depo	authorized to charg sit Account Numbe	ge the i	required fee(s), any de enclose a	ficiency, or credit any n extra copy of this form).
	s SMALL ENTITY state	us. See 37 CFR 1.27.	☐ b. Applicant is no lon				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accept ites Patent and Trademar	ed from anyone other than t k Office.	he applicant; a regis	tered a	ttorney or agent; or th	ne assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration N			
This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 I application form to the ions for reducing this but friginia 22313-1450. DC 13-1450.	CFR 1.311. The informat i U.S.C. 122 and 37 CFF USPTO. Time will var rden, should be sent to t O NOT SEND FEES OR	ion is required to obtain or r R 1.14. This collection is est y depending upon the indivine Chief Information Office COMPLETED FORMS TO	etain a benefit by th imated to take 12 n idual case. Any coi rr, U.S. Patent and D THIS ADDRESS	ie publ ninutes nment Fraden . SENI	ic which is to file (and to complete, includir s on the amount of ti- nark Office, U.S. Dep D TO: Commissioner	I by the USPTO to process; g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/938,387	08/23/2001	Charles P. Norman	ST00015USU2 (108-US-U2)	2456
34408 7	590 06/02/2008		EXAM	IINER
THE ECLIPSE GROUP			PHU, PH	UONG M
10605 BALBOA BLVD., SUITE 300			ART UNIT PAPER NUMBER	
GRANADA HILLS, CA 91344			2611	

DATE MAILED: 06/02/2008

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 583 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 583 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
09/938,387	NORMAN, CHARLE	S P.
Examiner	Art Unit	
Phuong Phu	2611	

The MAILING DATE of this communication appears on to All claims being allowable, PROSECUTION ON THE MERITS IS (OR REh herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. of the Office or upon petition by the applicant. See 37 CFR 1.313 and MP.	MAINS) CLOSED in this application. If not included appropriate communication will be mailed in due course. THIS This application is subject to withdrawal from issue at the initiati
 This communication is responsive to the RCE and IDS filed on 4/14 	<u>//08</u> .
 The allowed claim(s) is/are <u>1-10</u>. 	
	ceived.
Copies of the certified copies of the priority documents International Bureau (PCT Rule 17.2(a)). Certified copies not received:	have been received in this national stage application from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this co noted below. Failure to timely comply will result in ABANDONMENT of t THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	mmunication to file a reply complying with the requirements his application.
 A SUBSTITUTE OATH OR DECLARATION must be submitted. Not INFORMAL PATENT APPLICATION (PTO-152) which gives reasor 	
 CORRECTED DRAWINGS (as "replacement sheets") must be sub: (a) including changes required by the Notice of Draftsperson's Pate 1) □ hereto or 2) □ to Paper No./Mail Date (b) □ including changes required by the attached Examiner's Amendr Paper No./Mail Date (bm Variable Variable	ent Drawing Review (PTO-948) attached ment / Comment or in the Office action of ould be written on the drawings in the front (not the back) of according to 37 CFR 1.121(d). DLOGICAL MATERIAL must be submitted. Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Morration Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4/14/08 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal Patent Application 6. Interview Summary (PTO-413), Paper No./Mail Date

Application/Control Number: 09/938,387 Page 2

Art Unit: 2611

DETAILED ACTION

 This Office Action is responsive to the RCE and IDS filed on 4/14/08. Accordingly, claims 1-10 are currently pending.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

-Regarding to independent claim 1, none of prior art of record teaches or suggests an apparatus for compressing a GPS signal, as claimed. Barnard (5,241,561), previously cited, teaches the claimed apparatus except he fails to teach that the apparatus comprises a second mixer for receiving a carrier-removed GPS signal and a separately received frequency reference signal that is received at the apparatus separately from the GPS signal and outputting a resultant signal, as claimed. In light of specification of the instant application (figure 1 and col. 6, line 17 to col.. 7, lines 4), the separately received frequency reference signal is defined being a received signal (114), transmitted from a separate location and received at the apparatus, namely, not internally generated by the apparatus. Barnard does not teach such a separately received frequency reference signal received by the apparatus. Barnard teaches a second mixer for receiving a carrier-removed GPS signal and a frequency reference signal wherein the frequency reference signal, however, is internally generated by the apparatus. It would not have been obvious for one skilled in the art to implement Barnard for leading such the implementation to the claimed invention.

-Regarding to independent claim 5, none of prior art of record teaches or suggests a receiver comprising an antenna for receiving a GPS signal from a GPS satellite and for receiving radio signals over a radio link to a base station, the radio signals including a frequency reference

Application/Control Number: 09/938,387 Art Unit: 2611

signal; a second mixer for receiving a carrier-removed GPS signal, being derived from the GPS signal, and the frequency reference signal and outputting a resultant signal; a comb filter for filtering the resultant signal and obtaining a first output comprising filter lines; and a frequency shifter for shifting the filter lines to produce a compressed GPS signal.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (8:00 AM - 4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571-272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Phuong Phu Primary Examiner Art Unit 2611

/Phuong Phu/ Primary Examiner, Art Unit 2611